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81-10020
CR-143504

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of the Heat Capacity Mapping Mission with the
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Quarterly Progress Report
HCMM Contract
with the
U. S. Water Conservation Laboratory

1. Order No.: S-40255B

2. Principal Investigator: Ray D. Jackson
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3. Period of Report: 1 February 1980 to 30 April 1980

4. Description:

a. General -- Tapes for day and night passes on 16 and 20 May 1978, and a day pass on 3 May 1980 have been processed. Two preliminary results are apparent: (1) It is extremely difficult to locate a field of 9 pixel size, and (2) temperature data from the HCMM was consistently lower than temperatures measured with a scanner flown at low altitudes. The temperature differences between the satellite and aircraft data appear to be temperature dependent, being smaller at lower temperatures. Three data points are [in the format (airc, HCMM)] (12,9), (30,23), (39,30). The linear equation for these three points is $T_{HCMM} = 0.778 T_{airc} - 0.33$. These results are not regarded as significant, in the sense of d. below, because of the limited data and the necessity of comparing these data with data of other investigators.

- b. Problems - none this period.
c. Accomplishments - obtained and processed tapes.
d. Significant results - none (see a.).
e. Publications - none.
f. Recommendations - none.
g. All funds expended.

Submitted by:

Ray D. Jackson
Principal Investigator

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AUG 14 1980

(E81-10020) HEAT CAPACITY MAPPING MISSION
(HCMM) Quarterly Progress Report, 1 Feb. -
30 Apr. 1980 (Agricultural Research Service)
1 p JC A02/MF A01

N81-12497

SIS/902.6
HCM 005
TYPE II

CSCL J8H

Unclass

G3/43 00020